



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Water Resources

William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243

1-888-891-8332 (TDEC)

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Permit

OFFICIAL STATE USE ONLY	Site #: 2170	Permit #: NR1603.203
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Section 1. Applicant Information (individual responsible for site, signs certification below)

Applicant Name: Eric Garland

Company: Arthur-Shawnee Utility District

Signatory's Title or Position: Manager

Mailing Address: 112 Kirby Street

City: Harrogate

State: TN

Zip: 37752

Phone: (423)869-4761

Fax:

E-mail: asud@bellsouth.net

Section 2. Alternate Contact/Consultant Information (a consultant is not required)

Alternate Contact Name: Mitch Brunsmas

Company: Vaughn & Melton Consulting Engineers

Title or Position: Project Engineer

Mailing Address: P.O. Box 1425

City: Middlesboro

State: KY

Zip: 40965

Phone: (606)248-6600

Fax: (606)248-0372

E-mail: mlbrunsmas@vaughnmelton.com

Section 3. Fee (check appropriate box and submit requisite fee with application)

☐ No Fee Submitted☒ Fee Submitted with Application

Amount Submitted: \$ 500

Current fee schedules for Aquatic Resource Alteration Permit processing may be found at the Division of Water Resources webpage at <http://www.tn.gov/environment/permits/arap.shtml> or by calling (615) 532-0625. Make checks payable to "Treasurer, State of Tennessee".

Section 4. Project Details (fill in information and check appropriate boxes)

Site or Project Name: Old Jacksboro Rd Waterline Extension

Nearest City, Town or Major Landmark: Arthur or Harrogate

Street Address or Location: Old Jacksboro Road

County(ies): Claiborne

MS4 Jurisdiction:

Latitude (dd.dddd): 36.5455

Longitude (dd.dddd): 83.6645

Resource Proposed for Alteration: ☒ Stream☐ Wetland☐ Reservoir

Name of Water Resource: Jordan Branch Tributary to Gap Creek

Brief Project Description (a more detailed description is required under Section 8):

Project includes construction of a 4" PVC potable water distribution line to serve a portion of the Arthur community along Old Jacksboro Road.

Does the proposed activity require approval from the U.S. Army Corps of Engineers, the Tennessee Valley Authority, or any other federal, state, or local government agency? ☒ Yes ☐ No

If Yes, provide the permit reference numbers: USACE submittal included

Is the proposed activity associated with a larger common plan of development? ☐ Yes ☒ No

If Yes, submit site plans and identify the location and overall scope of the common plan of development.

Plans attached? ☐ Yes ☒ No

If applicable, indicate any other federal, state, or local permit authorizations that the overall project site (common plan of development) has obtained in the past (i.e. construction general permit coverage and/or other ARAPs):

N/A

Section 5. Project Schedule (fill in information and check appropriate boxes)

Start date: Jan. 2017

Estimated end date: Jan. 2017

Is any portion of the activity complete now? ☐ Yes ☒ No If yes, describe the extent of the completed portion:

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The required information in Sections 6-11 must be submitted on a separate sheet(s) and submitted in the same numbered format as presented below. If any question is not applicable, state the reason why it is not applicable.

Section 6. Project Description		Attached	
		Yes	No
6.1	A narrative description of the scope of the project	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.2	USGS topographic map indicating the exact location of the project (<i>can be a photographic copy</i>)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.3	Photographs of the resource(s) proposed for alteration with location description (<i>photo locations should be noted on map</i>)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.4	A narrative description of the existing stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.5	A narrative description of the proposed stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.6	In the case of wetlands, include a wetland delineation with delineation forms and site map denoting location of data points	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.7	A copy of all hydrologic or jurisdictional determination documents issued for water resources on the project site	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Section 7. Project Rationale		Attached	
		Yes	No
Describe the need for the proposed activity, including, but not limited to, the purpose, alternatives considered, and what will be done to avoid or minimize impacts to streams or wetlands.		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Section 8. Technical Information		Attached	
		Yes	No
8.1	Detailed plans, specifications, blueprints, or legible sketches of present site conditions and the proposed activity. Plans must be 8.5x11 inches. Additional larger plans may also be submitted to aid in application review. The detailed plans should be superimposed on existing and new conditions (<i>e.g., stream cross sections where road crossings are proposed</i>)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.2	For both the proposed activity and compensatory mitigation, provide a discussion regarding the sequencing of events and construction methods	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.3	Depiction and narrative on the location and type of erosion prevention and sediment control (EPSC) measures for the proposed alterations	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Section 9. Water Resources Degradation (degree of proposed impact) *Note that in most cases, activities that exceed the scope of the General Permit limitations are considered greater than de minimis degradation to water quality.*

My activity, as proposed:

- a. ☒ Will not cause measurable degradation to water quality
- b. ☐ Will only cause de minimis degradation to water quality
- c. ☐ Will cause more than de minimis degradation to water quality (*Complete additional sections 9-11*)
- d. ☐ Unsure/need more information

*For information and guidance on the definition of de minimis and degradation, refer to the **Antidegradation Statement** in Chapter 0400-40-03-.06 of the Tennessee Water Quality Criteria Rule: <https://www.tn.gov/sos/rules/0400/0400-40/0400-40-03.20131216.pdf>. For more information on specifics on what General Permits can cover, refer to the Natural Resources Unit webpage at <http://www.tn.gov/environment/permits/arap.shtml>*

If you checked "c." above in Section 9, complete the following 2 sections, 10-11.

Section 10. Detailed Alternative Analysis		Attached	
		Yes	No
10.1	Analyze all reasonable alternatives and describe the level of degradation caused by each of the feasible alternatives	<input type="checkbox"/>	<input type="checkbox"/>
10.2	Discuss the social and economic consequences of each alternative	<input type="checkbox"/>	<input type="checkbox"/>
10.3	Demonstrate that the degradation associated with the preferred alternative will not violate water quality criteria for uses designated in the receiving waters, and is necessary to accommodate important economic and social development in the area	<input type="checkbox"/>	<input type="checkbox"/>

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Permit

Section 11. Compensatory Mitigation		Attached	
		Yes	No
11.1	A detailed discussion of the proposed compensatory mitigation	<input type="checkbox"/>	<input type="checkbox"/>
11.2	Describe how the compensatory mitigation would result in no net loss of resource value	<input type="checkbox"/>	<input type="checkbox"/>
11.3	Provide a detailed monitoring plan for the compensatory mitigation site	<input type="checkbox"/>	<input type="checkbox"/>
11.4	Describe the long-term protection measures for the compensatory mitigation site (e.g., deed restrictions, conservation easement)	<input type="checkbox"/>	<input type="checkbox"/>

Certification and Signature

An application submitted by a corporation must be signed by a principal executive officer; from a partnership or proprietorship, by the partner or proprietor respectively; from a municipal, state, federal or other public agency or facility, the application must be signed by either a principal executive officer, ranking elected official, or other duly authorized employee.

"I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury".

Eric Garland

Manager, ASUD



11-9-16

Printed Name

Official Title

Signature

Date

Submitting the form and obtaining more information Note that this form must be signed by the principal executive officer, partner or proprietor, or a ranking elected official in the case of a municipality; for details see **Certification and Signature** statement above. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit the completed ARAP Application form (keep a copy for your records) to the appropriate EFO for the county(ies) where the ARAP activity is located, addressed to **Attention: ARAP Processing**. You may also electronically submit the complete application and all associated attachments (e.g., maps, wetland delineations and narrative portions) to water.permits@tn.gov.

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett	38133-4119	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305-4316	Chattanooga	1301 Riverfront Pkwy., Ste. 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601



OFFICIAL STATE USE ONLY

Received Date: 11/14/16	Permit Number: NR1603.203	Reviewer: CMV	Field Office: KEFO
Fee amount paid: \$500	T & E Aquatic Flora and Fauna:	Impaired Receiving Stream:	Application Review:
Date: 11/14/16			<input type="checkbox"/> Deficient Date: _____
Check #:	Exceptional TN Water:		<input type="checkbox"/> Complete Date: _____



Vaughn & Melton
Consulting Engineers

NOV 14 2016

109 S. 24th Street
Middlesboro, KY 40965
P. 606.248.6600
F. 606.248.0372

November 9, 2016

Tennessee Department of Environment & Conservation
Knoxville Environmental Field Office
3711 Middlebrook Pike
Knoxville, TN 37921

ATT’N: Valerie, McFall, Water Pollution Control

RE: Old Jacksboro Road Waterline Extension
Claiborne County, TN
V&M Project No. 11650-03

Dear Ms. McFall:

Enclosed for your review is a completed Application for Aquatic Resource Alteration Permit (ARAP) along with the required photographs, USGS Quad map, construction plan sheets, and detail sheet for a proposed potable water main stream crossing in the Arthur community of Harrogate in Claiborne County, TN. Also enclosed are copies of the US Army Corps of Engineers submittal information for your reference.

If you have any questions or need any additional information, please feel free to call me at (606) 248-6600 or email me at mlbrunsma@vaughnmelton.com.

Very truly yours,

VAUGHN & MELTON CONSULTING ENGINEERS, INC.

Mitchel L. Brunisma, P.E.
mlbrunsma@vaughnmelton.com

Enclosures

GEORGIA
KENTUCKY
NORTH CAROLINA
SOUTH CAROLINA
TENNESSEE

**TENNESSEE DEPT OF ENVIRONMENT AND CONSERVATION
APPLICATION FOR AQUATIC RESOURCE ALTERATION PERMIT
(ARAP)**

**OLD JACKSBORO ROAD WATERLINE EXTENSION
CLAIBORNE COUNTY, TENNESSEE**

November 2016

SECTION 6: PROJECT DESCRIPTION

- 6.1 Extension of the Arthur-Shawnee Utility District's potable water distribution system along Old Jacksboro Road to serve 3 existing residences and a new 20-unit apartment complex that is currently under construction in the Arthur community in northern Claiborne County, Tennessee. Construction will require a 4" PVC (polyvinyl chloride) trenched crossing of the Jordan Branch tributary to Gap Creek. Contractor will be required to construct the proposed trenched crossing during no-flow period if at all possible, depending on the seasonal period of construction. The crossing will be buried approximately 36" below the existing stream bed/ditch line and covered with approximately 6" of protective concrete encasement as well as original stream bed material up to the original stream bed elevation. The disturbed stream bank will be re-seeded with native vegetation and restored to original contours.
- 6.2 Map attached
- 6.3 Photographs attached
- 6.4 Jordan Branch Tributary to Gap Creek
The Jordan Branch tributary to Gap Creek where trenched crossing is proposed is a 48" wide ditch, approximately 36" in depth, with seasonal flow (dry at this time) that flows into a 48" corrugate metal pipe which carries the intermittent flows under Old Jacksboro Road. The sides of the ditch consist of native weeds and grasses and a piece of concrete that appears to have been placed to help prevent bank erosion. Ditch bottom consists of dirt, silt, and fractured rock/concrete pieces.
- 6.5 Existing stream characteristics will not be altered.
- 6.6 N/A
- 6.7 N/A

SECTION 7: PROJECT RATIONALE

7. Purpose of the proposed crossing is to provide potable water to area residents located along Old Jacksboro Road.

Alternatives considered at the proposed crossing location were directional bore and conventional trench excavation. The crossing is very small and boring of this stream/ditch would be extremely expensive as opposed to the cost of conventional trenching. A trenched crossing can be completed in less than 2 hours and no flow disturbance will be required. For these reasons, a trenched crossing is proposed.

SECTION 8: TECHNICAL INFORMATION

- 8.1 A plan sheet for the proposed crossing, along with a copy of the general construction detail and a general detail of the proposed erosion control plan for the trenched crossing has been attached.
- 8.2 Proposed piping will be installed by trenching through the tributary stream/ditch and backfilling with excavated material on top of concrete encasement. Flow diversion will not be needed due to the absence of flow (Contractor will make crossing during no-flow situation).
- 8.3 Silt fencing, rip-rap (if needed), and re-seeding of the stream bank on both sides of proposed crossing.

SECTION 9: WATER RESOURCES DEGRADATION – N/ASECTION 10: DETAILED ALTERNATIVE ANALYSIS – N/ASECTION 11: COMPENSATORY MITIGATION – N/A

NOV 14 2016

OLD JACKSBORO ROAD WATERLINE EXTENSION



Proposed Crossing of Jordan Branch of Gap Creek (Looking Northwest)



Proposed Crossing of Jordan Branch of Gap Creek (Looking Southeast)



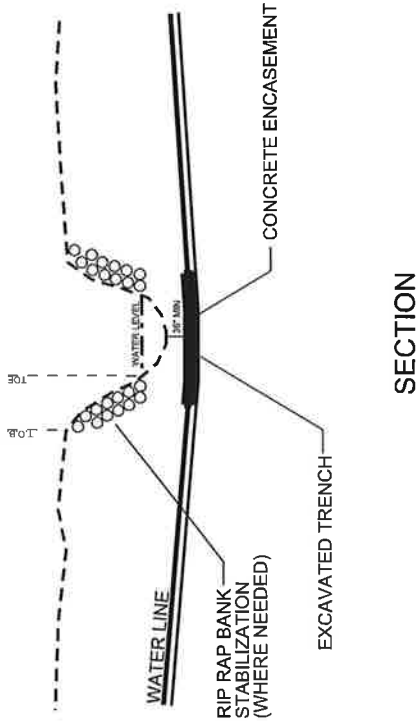
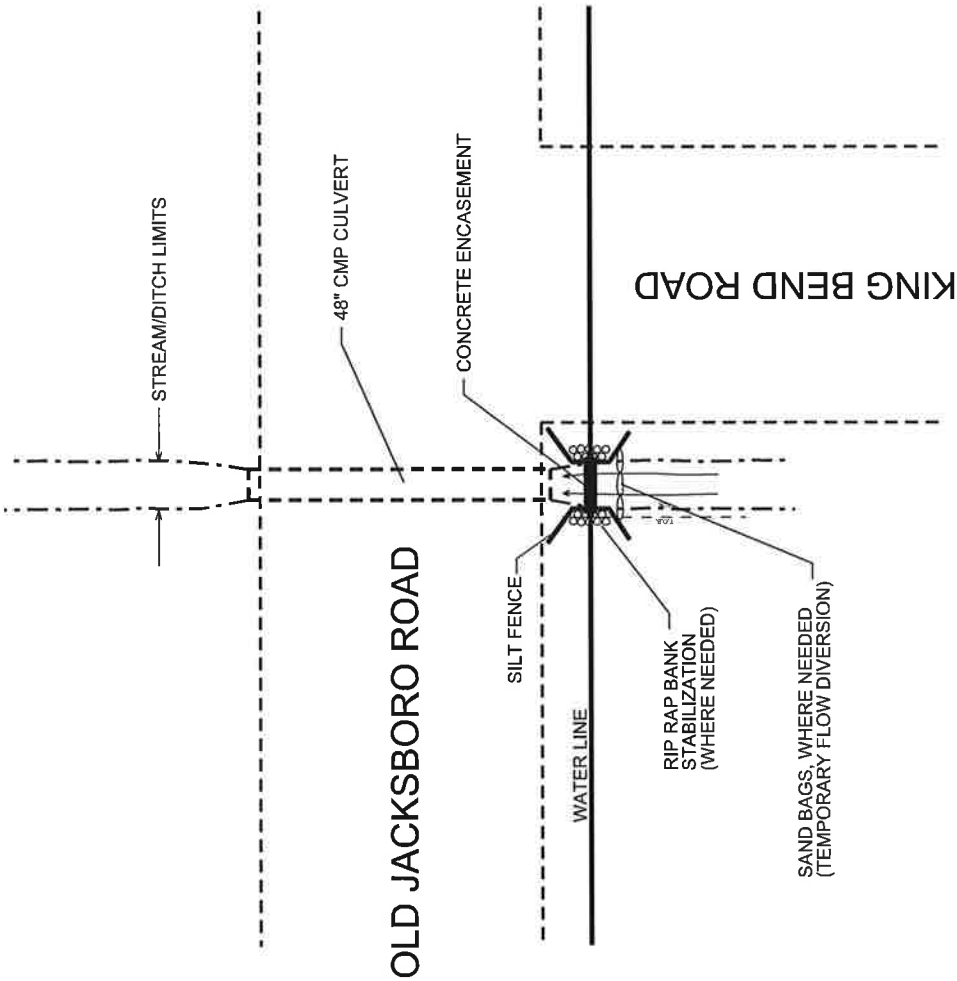
Proposed Crossing of Jordan Branch of Gap Creek (Looking Southwest)



Proposed Crossing of Jordan Branch of Gap Creek (Looking Northeast)

TYPICAL TRENCHED STREAM CROSSING
AND EROSION CONTROL DETAIL

NOT TO SCALE





Vaughn & Melton
Consulting Engineers

NOV 14 2016

109 S. 24th Street
Middlesboro, KY 40965
P. 606.248.6600
F. 606.248.0372

November 9, 2016

Regulatory Branch
Nashville District, Corps of Engineers
Department of the Army
3701 Bell Road
Nashville, TN 37214

ATT'N: Ms. Lisa Morris

RE: Old Jacksboro Road Waterline Extension
Claiborne County, TN
V&M Project No. 11650-03

Dear Ms. Morris:

Enclosed please find information relative to a proposed seasonal stream crossing in Claiborne County, Tennessee for the purpose of obtaining a Department of the Army Permit. The crossing is part of a waterline extension project to provide potable water to the Old Jacksboro Road area of Harrogate, Claiborne County. Submittal documentation consists of a completed Application for Department of the Army Permit application along with a vicinity map showing the proposed crossing location. I have also attached a copy of the Tennessee Department of Environment and Conservation (TDEC) Aquatic Resource Alteration Permit (ARAP) application and accompanying information for your reference. A more detailed description of the proposed crossing is as follows:

Lat./Long. - 36°32'44.18"/83°39'51.56"

This a proposed crossing of the Jordan Branch tributary to Gap Creek. This tributary appears to be seasonal and experiences little to no flow during periods of dry weather. Crossing is proposed to be trenched using conventional trenching techniques with a 4" PVC pipe. Pipe will be constructed 36" below the flow-line of the ditch and encased with concrete to protect the pipe from damage.

Your prompt review would be greatly appreciated. If you have any questions or need any additional information, please feel free to call or email me at the number/address listed below.

Very truly yours,

VAUGHN & MELTON CONSULTING ENGINEERS, INC.

Mitchel L. Brunsma, P.E.
mlbrunsma@vaughnmelton.com

Enclosures

GEORGIA
KENTUCKY
NORTH CAROLINA
SOUTH CAROLINA
TENNESSEE

17. DIRECTIONS TO THE SITE

Proposed crossing is located along Old Jacksboro Road, 0.27 miles southwest of the intersection of Old Jacksboro Road/Londonderry Road near the Arthur community of Harrogate in Claiborne County, TN.

18. Nature of Activity (Description of project, include all features)

Proposed trenched crossing of the seasonal Jordan Branch tributary to Gap Creek with a 4" PVC waterline. Pipe will be buried approximately 36" below the bottom of the ditch/stream and encased with concrete for protection.

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

Provision of potable water supply to residents along Old Jacksboro Road near the Arthur community of Harrogate in Claiborne Co., TN.

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED**20. Reason(s) for Discharge****21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:**

Type	Type	Type
Amount in Cubic Yards	Amount in Cubic Yards	Amount in Cubic Yards

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

Acres
or
Linear Feet

23. Description of Avoidance, Minimization, and Compensation (see instructions)

24. Is Any Portion of the Work Already Complete? ☐ Yes ☒ No IF YES, DESCRIBE THE COMPLETED WORK

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here, please attach a supplemental list).

a. Address- N/A - County Road Right-of-Way

City - State - Zip -

b. Address-

City - State - Zip -

c. Address-

City - State - Zip -

d. Address-

City - State - Zip -

e. Address-

City - State - Zip -

26. List of Other Certificates or Approvals/Denials received from other Federal, State, or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
TDEC	ARAP		November 2016	Pending	

* Would include but is not restricted to zoning, building, and flood plain permits

27. Application is hereby made for permit or permits to authorize the work described in this application. I certify that this information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.


SIGNATURE OF APPLICANT


DATE


SIGNATURE OF AGENT


DATE

The Application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

U.S.G.S. Quadrangle
Middleboro South, TENN.-KY.-VA.

